

DH-IPC-HDBW5449R-ASE-NI

4MP Pro Al Full-color Fixed-focal Dome Network Camera





- 1/1.8" 4Megapixel progressive scan CMOS
- · H.265 & H.264 triple-stream encoding
- · 25/30 fps@2688 × 1520, 50/60 fps@1080 (1920 × 1080)
- WDR (140 dB), Day/Night (Electronic), 3D DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 3.6 mm fixed lens
- 1/1 Alarm in/out, 1/1 audio in/out
- · Micro SD memory, IP67, IK10











System Overview

Pro Al series contains Face Detection, Perimeter Protection and People Counting functions. Powered by deep-learning Artificial Intelligence algorithms, significantly improved accuracy. Meanwhile, the series features starlight technology. This series fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard.

Functions

Face Detection

Face Detection is a software application that automatically captures faces from within a digital image or a video frame from a video source. Dahua cameras use advanced deep learning algorithms and are trained by a large number of face data sources, enabling the camera to locate faces quickly and accurately from the video source and capture facial images.

Perimeter Protection

Dahua's Perimeter Protection functions significantly improved accuracy. Perimeter Protection reduces false alarms and decreases pixel count requirements for object detection. Perimeter Protection features custom tripwires based on object type for automation in limited access areas such as pedestrian or vehicle-only zones. This combination of advanced AI analytics and real-time alerts to a desktop or to a mobile client reduces system requirements and resources resulting in greater surveillance system efficiency.

People Counting

People Counting function uses advanced image processing technology to capture depth information from within images. The camera pairs this information with deep learning algorithms to analyze and detect human bodies and track target objects in real time. The camera provides statistics for separate individuals' entrance and exit with up to 95% counting accuracy.

ePoE technology

The ePoE technology of Dahua, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Dahua ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

Protection(IP67, IK10, wide voltage)

The camera allows for ±30% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.

Full-color Starlight

The camera adopts F1.0 large aperture lens and 1/1.8" high performance sensor. With higher amount of absorbed light and advanced image processing algorithm, the camera presents an impressive low light performance with an exceptional balance between noise reduction and the blur of moving object.



Technical Spo	ecification							Main Stream: 2688 × 1520 (1 fps–25/30 fps)	
Camera						Frame Rate	2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)		
Image Sensor		1/1.8" 4Megapixel progressive scan CMOS						Sub Stream: D1 (1 fps–25/30 fps) D1 (1 fps–50/60 fps)	
Effective Pixels		2688 (H) × 1520 (V)						Third Stream: 1080P (1 fps–16 fps)	
RAM/ROM		1 GB/128 MB					Bit Rate Control	CBR/VBR	
Scanning System	Scanning System		Progressive				Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps	
Electronic Shutter Speed		Auto/Manual, 1/3 s–1/100000 s					Day/Night	Day/Night: Electronic	
Minimum Illumination		0.001 Lux @F1.0					BLC Mode	Color/B/W BLC/HLC/WDR (140 dB)	
Lens								Auto/Natural/Street Lamp/Outdoor/Manual	
Lens Type		Fixed-focal					White Balance		
Mount Type		Board-in					Gain Control	Auto/Manual	
Focal Length	Focal Length						Noise Reduction	3D DNR	
Max. Aperture		F1.0					Motion Detetion	Off/On (4 Zone, Rectangle)	
Angle of View		H: 93°, V: 50°					Region of Interest	Off/On (4 Zone)	
Aperture Type		Fixed					Defog	Yes	
Close Focus Dista	nce	2.0 m (6.56 ft	t)				Flip	0°/90°/180°/270°	
Close i ocus bistu	Lens	Detect	Observe	Recognize	Identify		Mirror	Off/On	
DORI Distance	3.6mm	70 m (230 ft)		14m(46ft)	7m(23ft)		Privacy Masking	Off/On (4 Area, Rectangle)	
Pan/Tilt/Rotati		70 111 (230 11)	20111 (3111)	14111(4010)	7111(2314)		Audio		
Pan/Tilt/Rotation		Pan: 0°–355°; Tilt: 0°–75°; Rotation: 0°–355°					Compression	G.711a, G.711Mu, G.726, AAC, G.723	
Artificial Intelli	_	ran. 0 –333 ,	, Tille. 0 –75 , II	otation. 0 –3	33		Network		
	gence	Comment from inva					Ethernet	RJ-45 (10/100 Base-T)	
Face Detection Perimeter Protection		Support face image capture Tripwire; intrusion (Recognition of vehicle and people); fast moving; loitering detection; parking detection and people gathering					Protocol	IPv4; IPv6; HTTP; HTTPs; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; SNMP	
People Counting	Paople Counting		crossing/Reg				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milstone, Genetec; P2P	
, ,			areas indeper				Streaming Method	Unicast/Multicast	
General Intelli	gence						Max. User Access	20 Users	
Event Trigger		changing, Ne	ction, Video to	nection , IP ad	ddress		Edge Storage	NAS; FTP; SFTP Micro SD card 256 GB	
Ganaral Intelliger	200		al Access,Stor				Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)	
Heat Map	General Intelligence		Object Abandoned/Missing				Management Software	Smart PSS, DSS, P2P	
		Yes					Smart Phone	iOS, Android	
Video		CA LL 2CAD LL 2CAL				Certifications			
Compression		H.265, H.264, H.264H, MJPEG(sub stream)					Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
Smart Codec Streaming Capability		Yes 3 Streams							
Sucanning Capability		3 3 a Cuitis					Interface	,	
Resolution		2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/91 (704 × 576/704 × 480)/920 (540 × 480)/920				Audio Interface	1/1 channel In/Out		
			720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/ CIF (352 × 288/352 × 240)				Alarm	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC	

Electrical

Power Supply	DC 12V (±30%), PoE (802.3af) (Class 0)
Power Consumption	<4.4W

Environmental

Operating Conditions	-30° C to +60° C (-22° F to +140° F)/Less than 95% RH
Storage Conditions	-30° C to +60° C (-22° F to +140° F)
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Φ122.0 mm × 88.9 mm (4.80" × 3.50")
Net Weight	0.46 kg (1.01 lb)
Gross Weight	0.62 kg (1.37 lb)

Ordering Information				
Туре	Part Number	Description		
	DH-IPC- HDBW5449RP- ASE-NI	4MP Pro Al Full-color Fixed-focal Dome Network Camera, WDR, PAL		
4MP camera	DH-IPC- HDBW5449RN- ASE-NI	4MP Pro Al Full-color Fixed-focal Dome Network Camera, WDR, NTSC		
	IPC-HDBW5449RP- ASE-NI	4MP Pro Al Full-color Fixed-focal Dome Network Camera, WDR, PAL		
	IPC-HDBW5449RN- ASE-NI	4MP Pro Al Full-color Fixed-focal Dome Network Camera, WDR, NTSC		
	PFA137	Junction box		
	PFB200C	Inceiling Mount		
	PFA200W	Rain Shade		
Accessories	PFA123	Junction box		
(optional)	PFB203W	Wall Mount		
	PFA152-E	Pole Mount		
	PFA106	Mount Adapter		
	PFB220C	Ceiling Mount		

Accessories

Optional:









PFA137 Junction box

PFB200C Inceiling Mount

PFA200W Rain Shade

PFA123 Junction box









PFB203W Wall Mount

Pole Mount

PFA106 Mount Adapter

PFB220C Ceiling Mount



LR1002 ePoE Over Coax Converter

Junction Mount	Inceiling Mount	Wall Mount with Rain Shade	Junction Mount
PFA137	PFB200C	PFA200W	PFA123
	6		
Wall Mount	Pole Mount	Ceiling Mount	
PFB203W	PFB203W + PFA152-E	PFA106+ PFB220C	

Dimensions (mm[inch])





